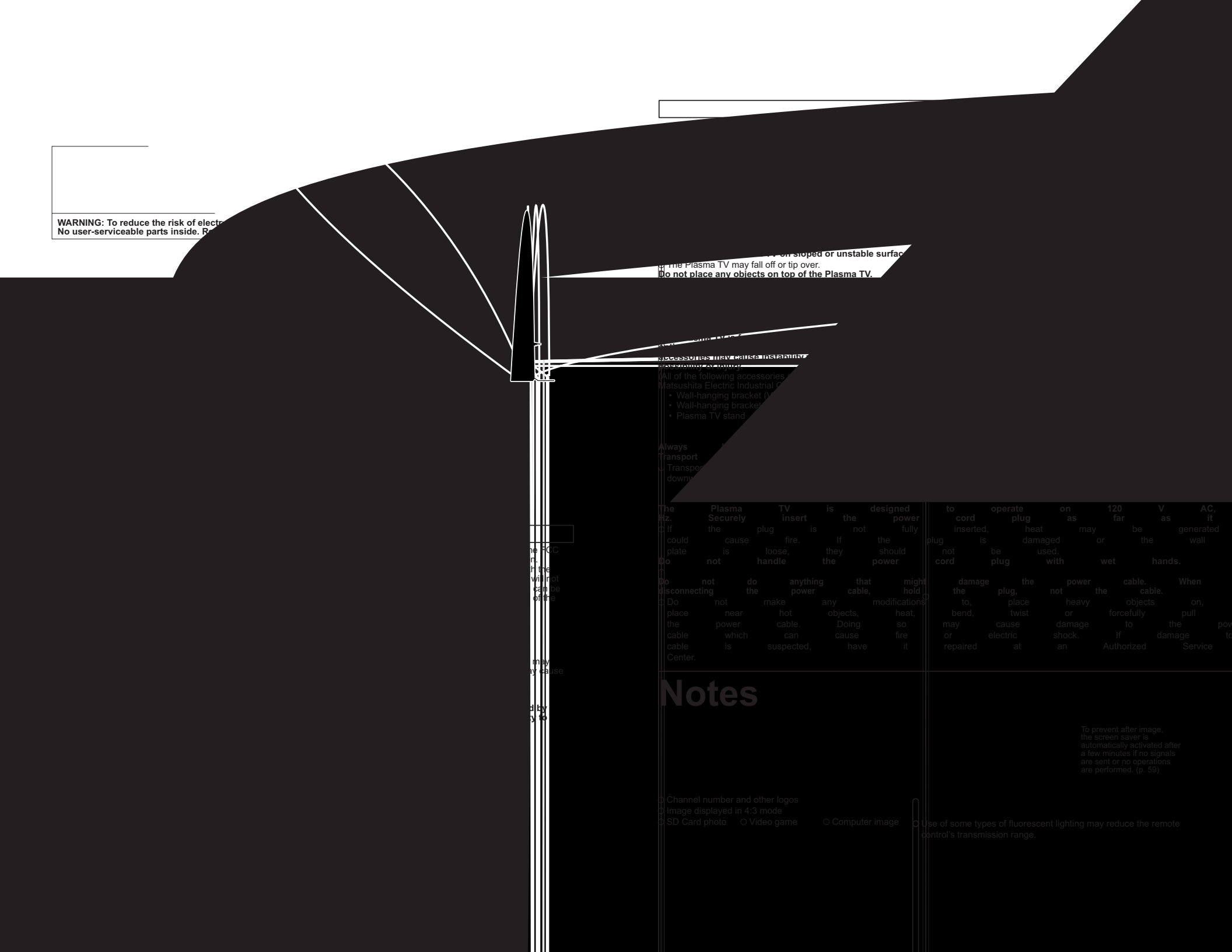

VIERA
Panasonic

Turn your own living room into a movie theater!

Connection

First time Setup
INITIAL GUIDE SETUP
for TV Guide



WARNING: To reduce the risk of electr
No user-serviceable parts inside. R

on sloped or unstable surfac

The Plasma TV may fall off or tip over.

Do not place any objects on top of the Plasma TV.

ssories may cause instability

All of the following accessories

Matsushita Electric Industrial

- Wall-hanging bracket (
- Wall-hanging bracket
- Plasma TV stand

Always

Transport

Transpor

down

The Plasma TV is designed to operate on 120 V AC, Hz. Securely insert the power cord plug as far as it

If the plug is not fully inserted, heat may be generated could cause fire. If the plug is damaged or the wall plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

Do not make any modifications to, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damage to the pow cable which can cause fire or electric shock. If damage to cable is suspected, have it repaired at an Authorized Service Center.

Notes

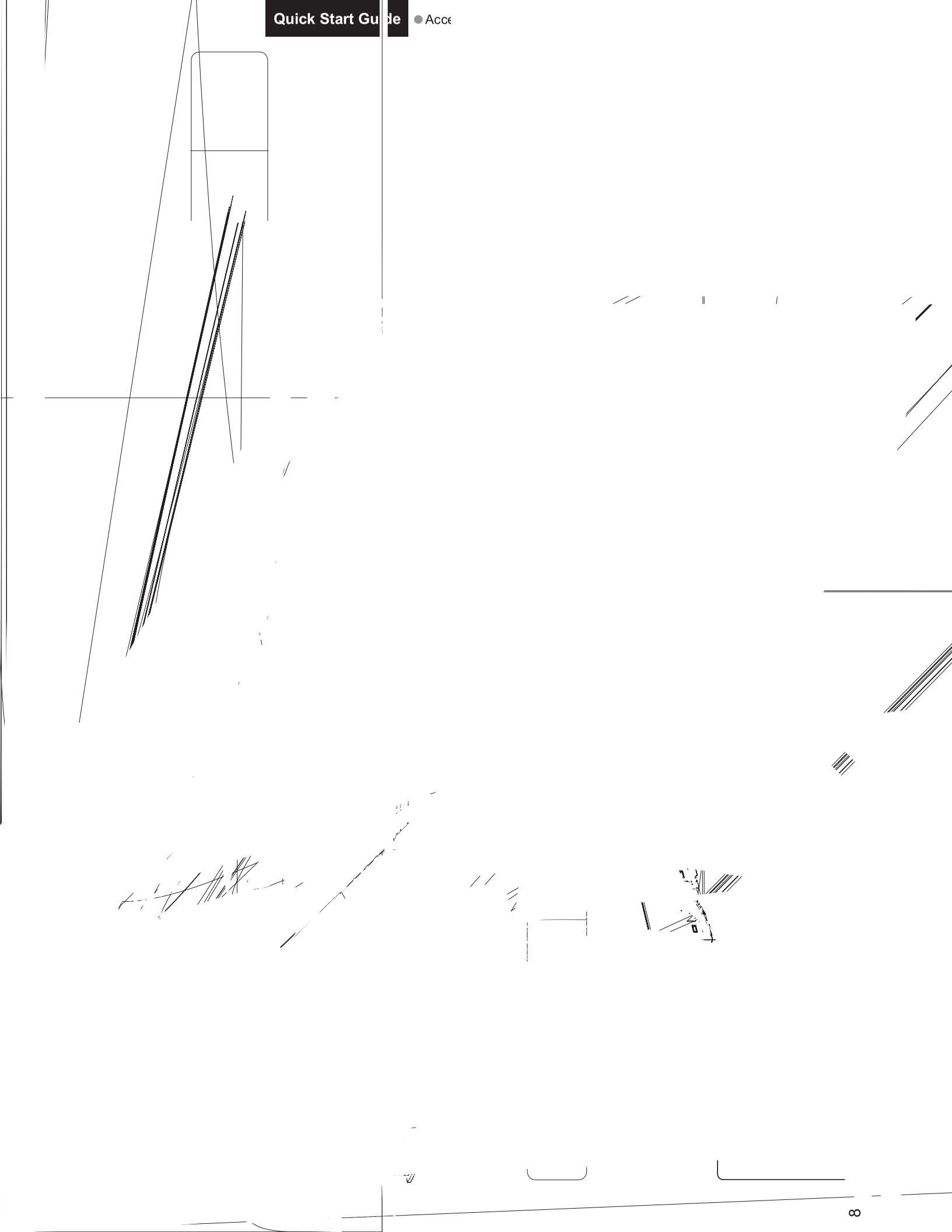
To prevent after image, the screen saver is automatically activated after a few minutes if no signals are sent or no operations are performed. (p. 59)

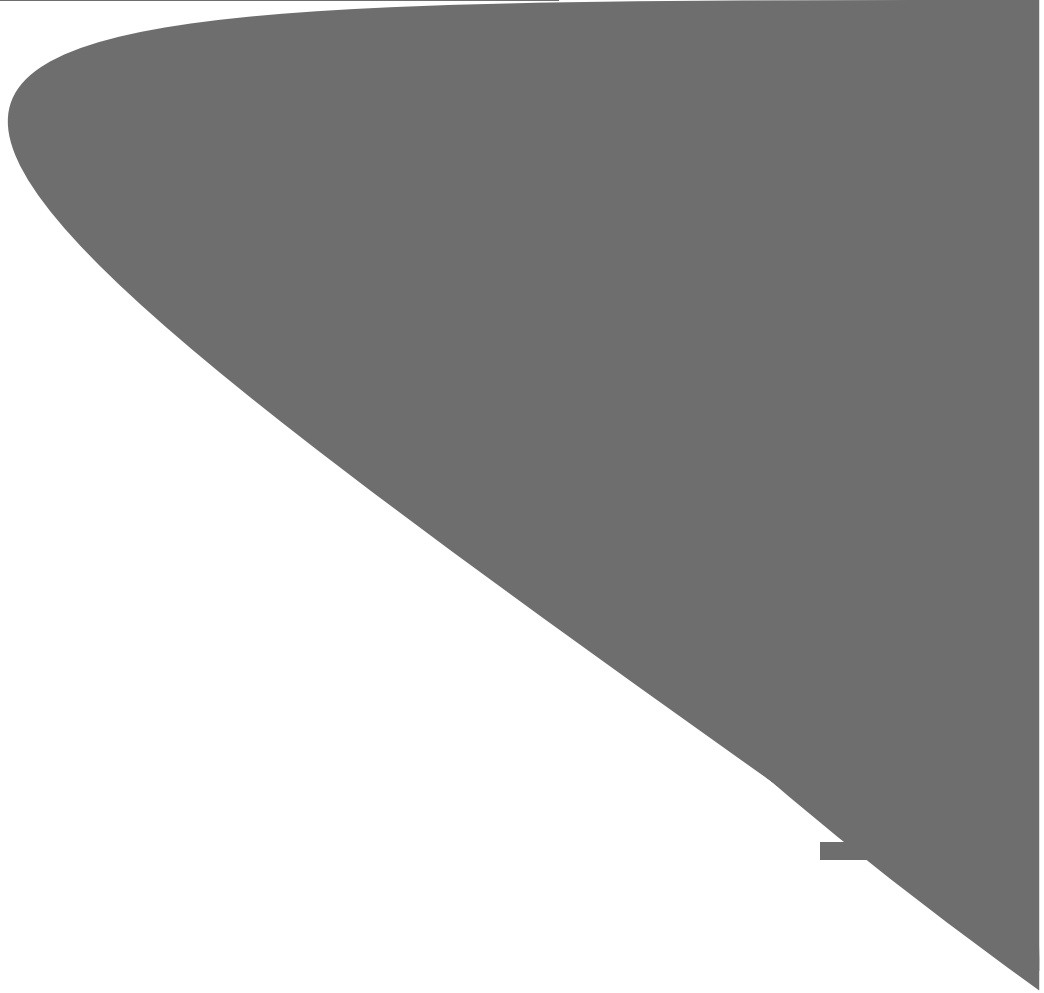
Channel number and other logos

Image displayed in 4:3 mode

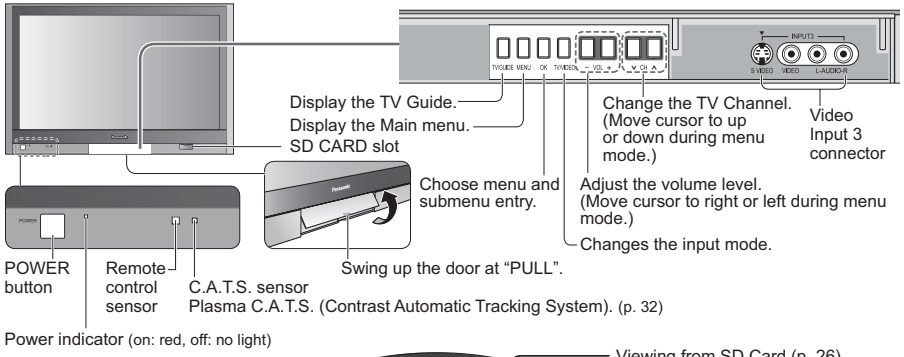
SD Card photo Video game Computer image

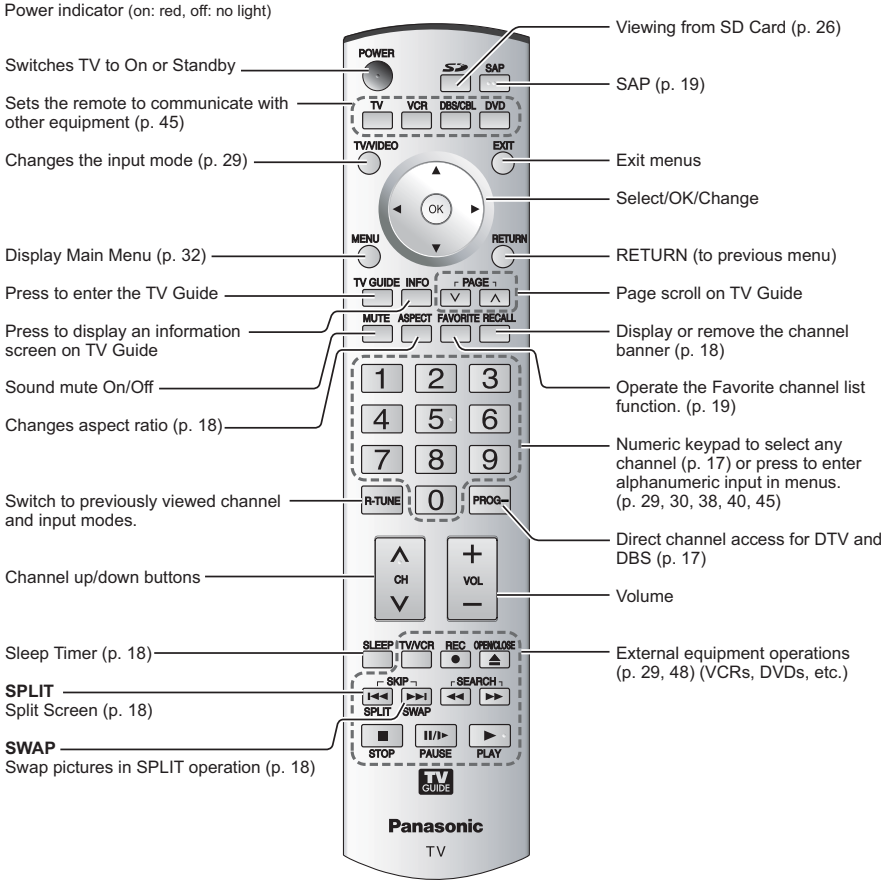
Use of some types of fluorescent lighting may reduce the remote control's transmission range.





Identifying Controls





First Time Setup

"First time setup" is displayed only when the TV is turned on for the first time after the AC cord is inserted into a wall outlet. Available only when "Auto power on" (p. 32) is set to "Off".



1 Turn the TV On with the POWER button





■ **Press to exit**

EXIT

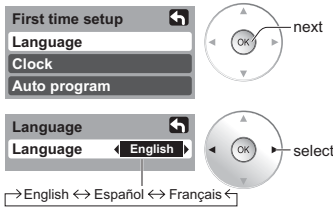
■ **Press to return to previous screen**

RETURN

Note

- To change setting (Language/Clock/Auto program) later, go to Menu screen (p. 32)

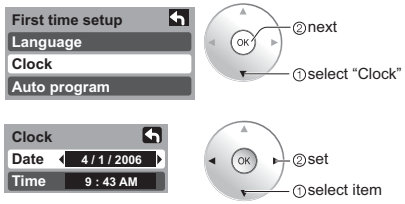
2 Select your language



RETURN

Press to go to previous screen.
Or, select ↩ icon, then press OK for same results.

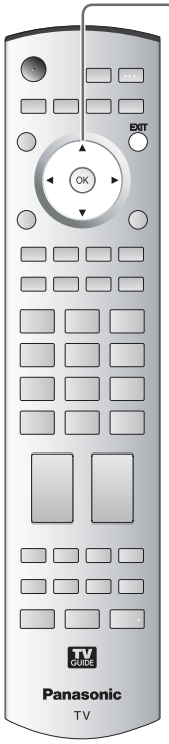
3 Adjust the clock



Date: Adjust the date
(Press and hold to change the month.)
Time: Adjust the time
(If the button is held, the speed of change increases.)

(Continue to next page.)

First Time Setup (Continued)



■ **Press to exit**

EXIT

Note

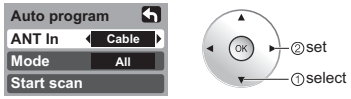
- Auto program is not available while the CableCARD™ is inserted.
- About broadcasting systems
 Analog: traditional TV system
 Digital: new system that allows you to view more channels featuring high-quality video and sound

4 Auto channel setup

①Select “Auto program”



②Select antenna and input modes



ANT In

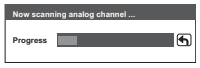
Cable: Cable TV
Antenna: Antenna

Mode

All: digital and analog
Analog: analog only
(Reduces time for scanning)

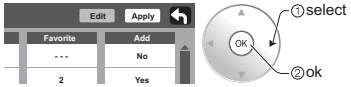
③Start scanning the channels





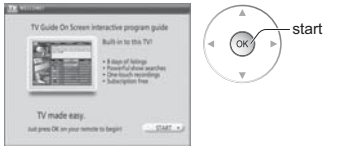
- Available channels (analog/digital) are automatically set.

④Confirm registered channels



- If OK is not pressed after selecting “Apply”, the channels will not be memorized.

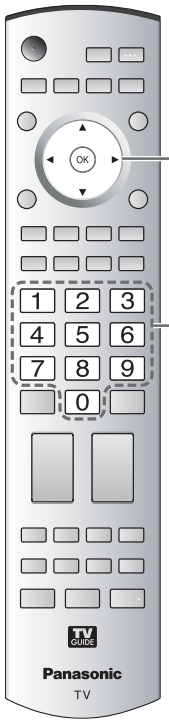
5 INITIAL GUIDE SETUP for TV Guide



Follow the instructions on the screen to perform setup. (p. 15)

INITIAL GUIDE SETUP for TV Guide

The TV Guide Welcome Screen is displayed when you use TV Guide function for the first time, or at first time setup. (p. 13)



■ **Select to return to previous screen**

Back

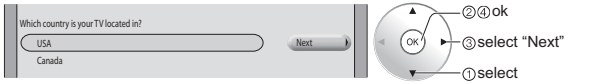
■ **Go to the next screen**

Next

1 Identify Your Location

The Guide uses setup information to provide TV show listings and channel lineups for your area.

a. Select your country

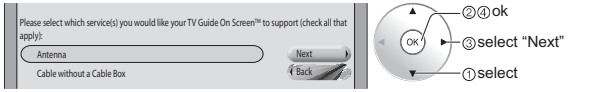


b. Enter a ZIP Code or Postal Code.
To return to left column, press ◄ button.



2 Select Your Service(s)

Select the connected video source(s) for which you would like to receive show listings.



Note

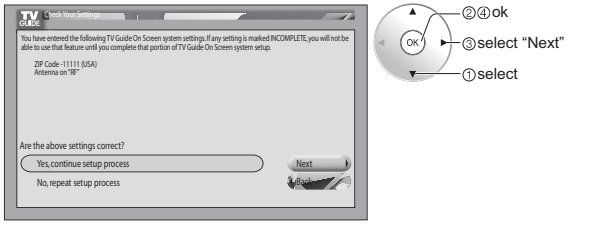
- If you do not have cable, you must select “Antenna” in order to receive a channel lineup and listings.

3 Configure Your Service(s)

For each service you chose in Step 2, you are asked to select the corresponding input.
Additional setup screens appear based on the types of service(s) you selected.

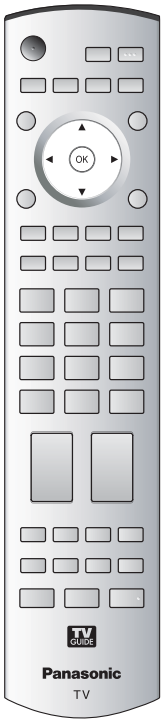
4 Check Your Settings

After you have configured all services you selected in Step 2 you are asked to check your settings.



If you select “Yes, continue setup process”, go to Step 5 (p. 16).
If you select “No, repeat setup process”, return to Step 1.

(Continue to next page.)


OK
TV GUIDE
Panasonic
TV


POWER
SAP
TV
EXIT
OK
TV GUIDE
ASPECT
FAVORITE
RECALL
1
2
3
4
5
6
7
8
9
0
CH



Watching TV (Continued)

■ **Other Useful Functions** (Operate after ❹ in p. 17)

Sleep Timer

Switches the unit OFF in a preset amount of time from 0 to 90 minutes in 30 minute intervals.

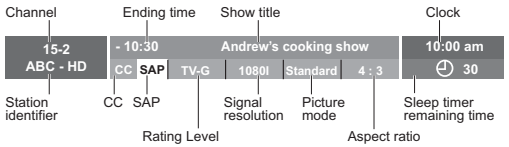
SLEEP

● 0/30/60/90 (minutes)

Information Recall

Display or remove the channel banner.

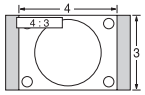
RECALL



Change aspect ratio

Change the aspect (p. 52)

ASPECT



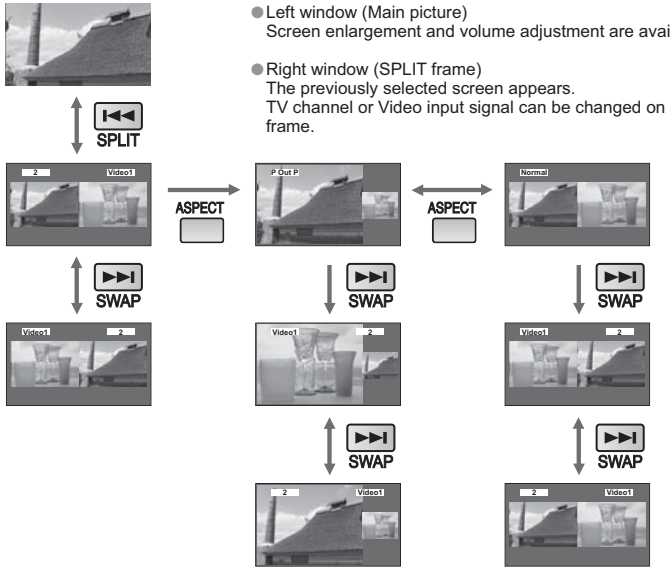
- Press button to cycle through the aspect modes.
- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9) : FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p : FULL, H-FILL, JUST, 4:3 or ZOOM.

Split - Screen

Watch in multi window

(Audio is from Main picture only)

• The Split-screen feature is not available when using HDMI, PC and SD Card viewing mode as a source.



- Left window (Main picture)
 Screen enlargement and volume adjustment are available.
- Right window (SPLIT frame)
 The previously selected screen appears.
 TV channel or Video input signal can be changed on SPLIT frame.

Listen with SAP (Secondary Audio Program)

■ **Select Audio Mode for TV Viewing**

SAP

- **Digital mode**
 Press SAP to select the next audio track (if available) when receiving a digital channel.

 Audio track 1 of 1
 (English)

- **Analog mode**
 Press SAP to select the desired audio mode.
 • Press the SAP button to cycle through the audio modes. (Stereo/SAP/Mono).

Call up a favorite channel

FAVORITE

■ **FAVORITE**

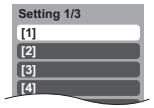
Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor, or using number keys. (see below)

Set Favorite Feature

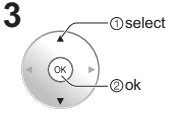
1 Display the channel to be placed on the Favorites list.

2 FAVORITE

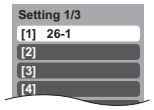
Hold down FAVORITE for several seconds.
• Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◄ ► also changes the page.



3



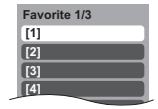
Press ▲▼to highlight a position on the list.
Then, press OK to memorize the displayed CH in that position.
• You can also use the NUMBER keys (1-9 and 0) to select the recorded list numbers (1-9 and 0). By doing so, the numbers will be directly recorded without having to press OK.



- **To delete a favorite channel**
 A memorized channel can be removed from the list by holding down FAVORITE while its position is highlighted.

Use Favorite Feature

1 FAVORITE



Press FAVORITE.
• Press FAVORITE repeatedly to change between pages (1/3, 2/3, 3/3, or exit). Pressing ◄ ► also changes the page.

2

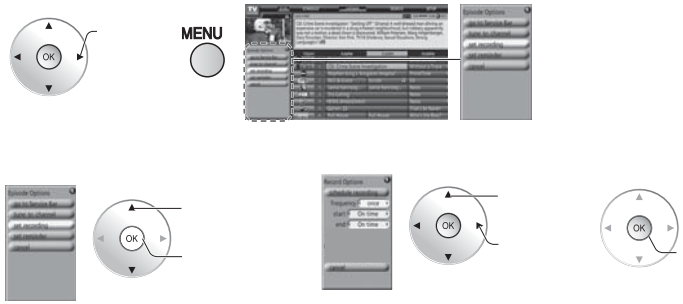


Press ▲▼ or a Numbered key (1-9 and 0) to highlight a channel on the list.
• Selecting a channel number from the list with the Number keys will display the channel directly.

3



Press OK to display the highlighted channel.



①



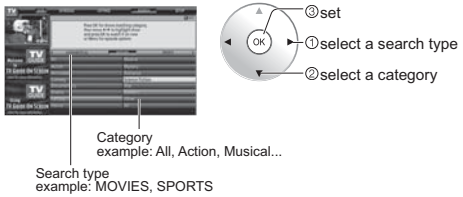
②**Select an item and follow the on-screen instructions for further settings**

Search for shows

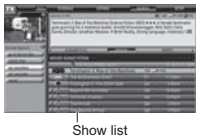
SEARCH

①**Select “SEARCH” in** ② (p. 20)

②**Select the search type and category**



The show list appears.

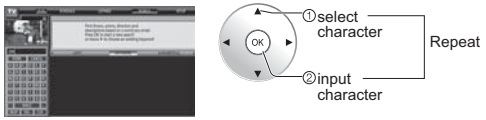


- To display the desired show
 ➡Select the show on air and press OK
- To reserve shows for recording
 ➡Select the upcoming show and press MENU
 ➡Select “set recording” on the panel menu

■**Searching for a Specific Keyword, Actor, or Director**

①Select “KEYWORD” in ② above for category and press OK
②Select “new search” and press OK
③Make the selections for your search and press OK
- type (title, actor, director, description, all)
- category (movies, sports, series, children, HDTV, all, etc.)
- sub(category) (action, comedy, horror, all, etc.)

④Select “enter keyword” and press OK
⑤Input the keyword



⑥Select “DONE” and press OK ➡ The show list appears.

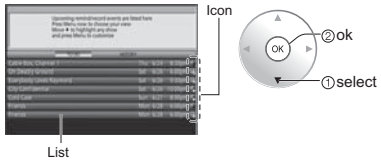
Using TV Guide (Continued)

Check reservation

SCHEDULE

①Select “SCHEDULE” in 2 (p. 20)

②Select “TO DO”



Recording	Reminder	Description
		Once
		Regularly
		Weekly
		Daily
		Off

From “TO DO”, press MENU. The “Schedule Options” menu appears.
You can set sort by, new manual recording, new manual reminder.



■To edit/delete reservations

➡Select the reservation ➡ MENU ➡ Select on the panel menu

- delete manual recording: Deletes the recording reservation
- edit manual recording: Changes settings of the recording reservation
- delete manual reminder: Deletes the viewing reservation
- edit manual reminder: Changes settings of the viewing reservation

③Select “HISTORY”





Current/previous record results are listed here.
Press MENU now to choose your view.
Move down to highlight a result and press MENU to customize.

Reserve with date and time

Manual Recording

Manual Reminder

Before the VCR starts timer recording, please confirm that the VCR’s power is turned off.
①Select “TO DO” under “SCHEDULE” (see to the right) and press MENU
②Select “new manual recording” or “new manual reminder” and press OK
③Set the date and time, the channel, and other settings and press OK



(example: Manual Recording)



Caution

A conflict message appears when a show you schedule to

- Record overlaps with any part of another show previously set to record
- Record overlaps with a reminder previously set to auto tune
- Remind and auto tune overlaps another auto-tune reminder
- Remind and auto tune overlaps with a scheduled recording





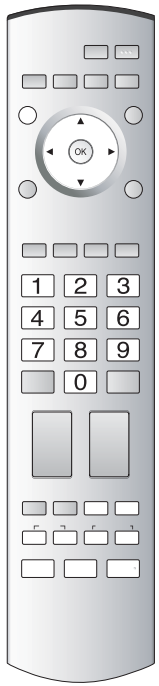
To resolve the conflict, you must select one of these options (which vary according to the type of conflict):

- **record anyway** - records the specified show and suspends the existing show recording or auto-tune reminder
- **don’t record this show** - cancels the specified show recording
- **auto-tune anyway** - auto tunes the specified show and suspends the existing show reminder set to auto tune
- **remind, no auto-tune** - schedules the specified show reminder but cancels the auto-tune option
- **don’t set this reminder** - cancels the specified reminder





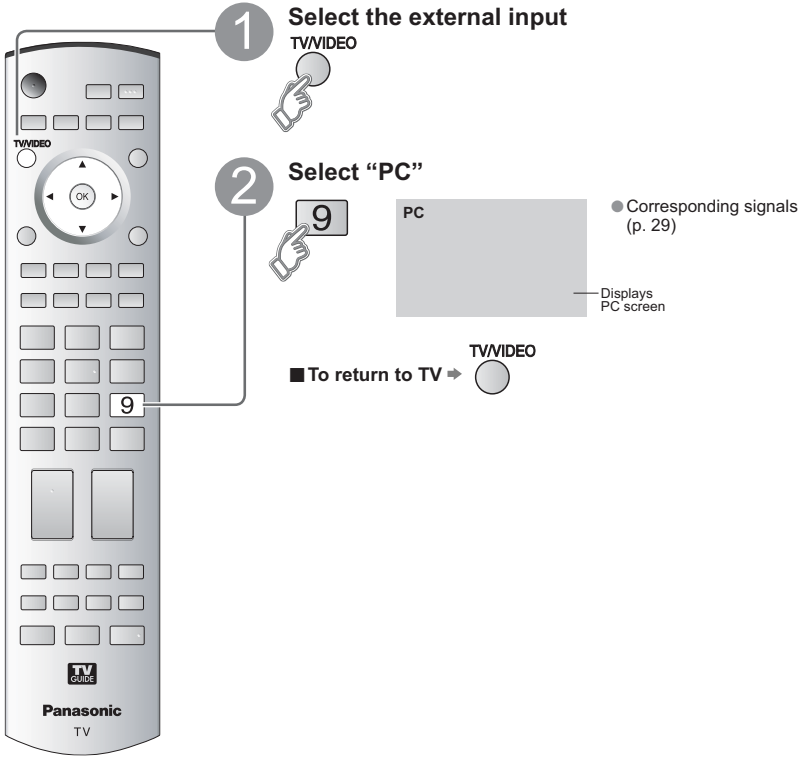




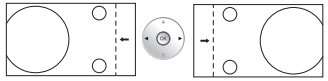
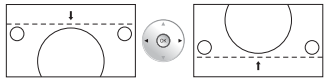
	VCR MODE	DVD MODE
REC	VCR Record	Record
OPEN/CLOSE	—	Open/Close
SKIP	—	Skip Reverse/Forward
SEARCH	Rewind/Fast Forward	Reverse/Forward
STOP	Stop	Stop
II/I► PAUSE	Pause	Pause
► PLAY	Play	Play

Displaying PC Screen on TV

The screen of the PC connected to the unit can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 46)



■ **PC menu setting** (changed as desired)
● Making settings ➡ “How to Use Menu Functions” ❶ to ❹ (p. 32)

Menu	Item		Adjustments/Configurations(options)
Picture	PC adjust	Normal	Resets PC adjust
		Sync	● H&V : The H and V sync signals are input from the HD/VD connector. ● On G : Uses a synchronized signal on the Video G signal, which is input from the G connector.
		Dot clock	Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.
		H-position	Adjust the horizontal position. 
		V-position	Adjust the vertical position. 
		Clock phase	Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock Phase so that a clear picture appears. Note It may not be possible to display a clear picture due to poor input signals.
		Input resolution	Switches to wide display. ● Input signal switched from VGA to WVGA ● Input signal switched from XGA to WXGA
		H-frequency V-frequency	Displays the H (Horizontal)/V (Vertical) frequencies. ● Display range Horizontal: 15 - 110kHz Vertical: 48 - 120Hz

● Audio menu (p. 32)
● For PC input, only audio signals can be output from PROG. OUT terminals.

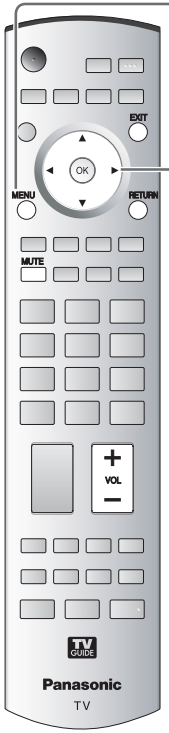
Audio
Time
Loc
TV
Pho

Control with HDMI “HDAVI Control™”*

* Simultaneously control all Panasonic “HDAVI Control” equipped components using one-button on one remote.

Newer Panasonic audio-video products with HDMI output connections can be controlled using the TV’s remote. Limited features such as home theater system volume and automatic switching to the TV’s HDMI input are available.

- This feature is limited to models incorporating Panasonic’s “Control with HDMI”. Refer to the individual instruction manuals for compatibility information.
- Non-HDMI-compliant cables cannot be utilized.
- It is recommended that you use Panasonic’s HDMI cable.
 Recommended part number: RP-CDHG15 (1.5 m), RP-CDHG30 (3.0 m), RP-CDHG50 (5.0 m)



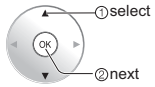
1 Display menu

MENU

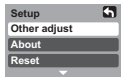


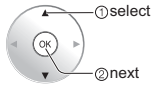
2 Select “Setup”



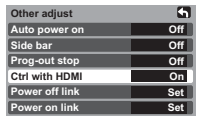


3 Select “Other adjust”





4 Select “Ctrl with HDMI”





5 Select “On”



- Default setting is “On”. If no HDMI equipment is connected or standard HDMI equipment (non- “Control with HDMI”) is used, set to “Off”.

■ **Press to return to TV**

EXIT

■ **Press to return to the previous screen**

RETURN

Automatic input switching

At the start of DIGA, Player theater or RAM theater playback, the TV’s input automatically switches to the input corresponding to the playback equipment.

- For RAM theater, the speakers automatically switch to theater.
 If using DIGA operation, the TV’s input automatically switches to DIGA and the DIGA menu is displayed.

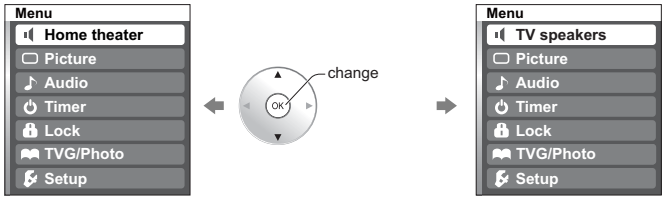
Theater speaker

You can control the theater speaker with TV’s remote control.
“Home theater” with speaker icon appears when a Panasonic “Control with HDMI” home theater system is connected via the HDMI input (1 or 2).
Pressing OK toggles between TV and home theater volume control.

- “Ctrl with HDMI” must be set to “On”.
- Limited to newer Panasonic Home Theater, RAM theater and DIGA/DVD models with “Control with HDMI”.

①Display menu ➡ MENU

②Select “Home theater” or “TV speakers”



■ **Home theater:**
Adjustment for Panasonic Amplifier, Panasonic Player theater, Panasonic RAM theater

Volume up / down ➡ VOL + / − Mute ➡ MUTE

■ **TV speakers:**
The TV speakers are active.

- When selecting “Home theater”, the sound of TV speakers is muted.
- When “Home theater” is selected, the home theater volume control can be raised or lowered using the TV remote volume button. The TV will display “Home Theater + / -” on screen.
- If home theater/RAM theater/Player theater is currently off, selecting the “Home theater” option will automatically turn the equipment on. See “Power on link” below.
- If home theater/Player theater/RAM theater power is turned Off, speakers automatically switch to the TV.

Power on link

When “Set” is selected, this allows for the TV to automatically turn on and switch to the appropriate HDMI input whenever a “Control with HDMI” compatible DVD player/recorder is initially turned on and Play mode is selected.

Power off link

When “Set” is selected, this allows for the TV to turn off and also turn off the connected home theater/RAM theater/player theater and/or DIGA-DVD player.

One-touch theater playback

If the “ONE TOUCH PLAY” key is pressed on the AV amp or Player theater remote control, the following sequence of operations is performed automatically.
① Home theater/Player theater power switches On, and playback begins.
② TV power switches On, and the playback screen is displayed.
③ Audio is muted on the TV and switches to theater.

Caution

- The TV remains on even if the “Control with HDMI” compatible equipment is turned off.

Note

- Before using HDMI control functions, the connected equipment (DIGA, RAM theater, Player theater, AV amp) must also be set. For details, see the operation manual for each piece of equipment.
- For equipment connection details, see p. 36.

Control with HDMI “HDAVI Control™”

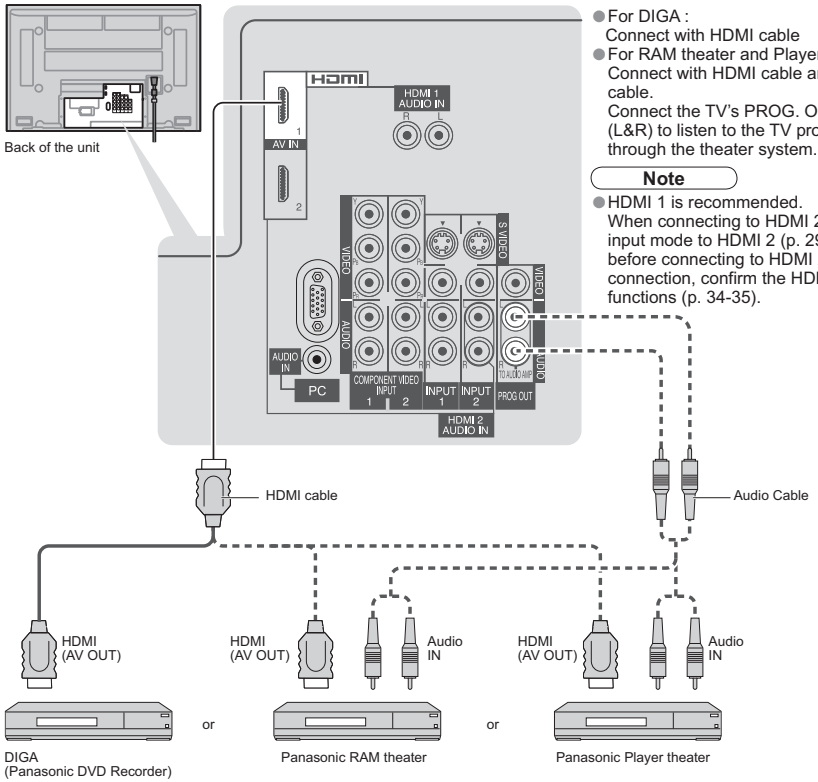
Recommended HDMI Connections

Follow the connection diagrams below for HDMI control of a single AV piece of equipment such as a Panasonic DIGA-DVD recorder, RAM Theater or Player Theater system. Refer to page 34 for Setup Menu settings and additional control information.

- Optional HDMI and/or optical cables are not provided.

If connection (or setting) of equipment compatible with HDMI control is changed, switch the power of this unit Off then On again while the power of all equipment is On (so that the unit can correctly recognize the connected equipment) and check that DIGA, RAM theater and Player theater playback operates.

■ Connecting this unit to a DVD recorder, RAM theater or Player theater



- For DIGA : Connect with HDMI cable
- For RAM theater and Player theater : Connect with HDMI cable and audio cable. Connect the TV’s PROG. OUT audio (L&R) to listen to the TV program through the theater system.

Note

- HDMI 1 is recommended. When connecting to HDMI 2, set the input mode to HDMI 2 (p. 29) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 34-35).

■ Setting of this unit after connection

After making connections as shown above, set “Ctrl with HDMI” (under “Other adjust”) to “On” using the Setup menu. (p. 34).

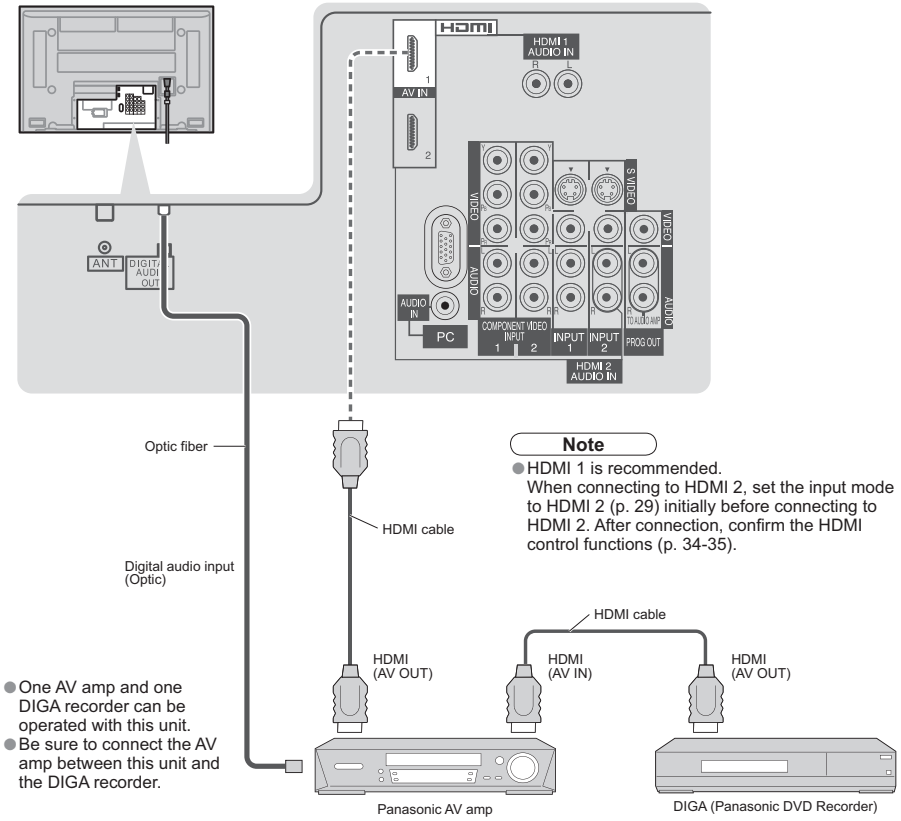
Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.

(Continued)

■ Connecting this unit to a DVD recorder and AV amp

When using an “Control with HDMI” audio-video amplifier and a compatible DIGA recorder, use a daisy chain connection as shown below.



- One AV amp and one DIGA recorder can be operated with this unit.
- Be sure to connect the AV amp between this unit and the DIGA recorder.

Note

- HDMI 1 is recommended. When connecting to HDMI 2, set the input mode to HDMI 2 (p. 29) initially before connecting to HDMI 2. After connection, confirm the HDMI control functions (p. 34-35).

■ Setting of this unit after connection

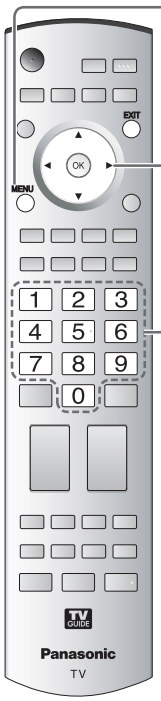
After making connections as shown above, set “Ctrl with HDMI” (under “Other adjust”) to “On” using the Setup menu. (p. 34).

Note

- Individual HDMI equipment may require additional menu settings specific to each model. Please refer to their respective operating instruction manuals.
- When audio from other equipment connected to this unit via HDMI is output using “DIGITAL AUDIO OUT” of this unit, the system switches to 2CH audio. (When connecting to an AV amp via HDMI, you can enjoy higher sound quality.)

Channel Lock

You can lock out specified channels or shows to prevent children from watching objectionable content.



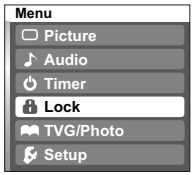
1 Display menu

MENU



2 Select “Lock”

You will be asked to enter your password each time you display the Lock menu.



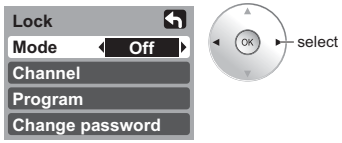
3 Input your 4-digit password

A 4-digit code must be entered to view a blocked program or change rating settings.



- If it is the first time to enter the password, enter the number twice in order to register it.

4 Select the Lock mode



- Off: “Channel lock” not activated
- All: Locks all channels and external inputs
- Game: Locks CH3, CH4, and external inputs
- CH: Locks specified channels (analog/digital)

■ To change the password

①In ❹, select “Change password” and press OK

②Input the new 4-digit password twice

■ To cancel the “Channel lock”

Select “Off” in ❹

■ Press to exit

EXIT

Caution

- Make a note of your password in case you forget it. (If you have forgotten your password, consult your local dealer.)

Note

- When you select a locked channel, a message will be displayed that allows you to view the channel if you input your password.

■ To select the channel or the rating of the program to be locked

Channel Lock

Select up to 7 (1-7) channels to be blocked out. These channels will be blocked out regardless of the program rating.
Select “CH” in ❹ on p. 38

①Select “Channel”



②Select channel to lock

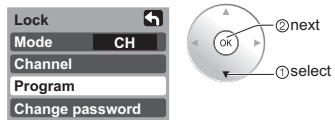


Block program

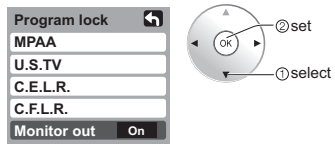
■ To set rating level

“V-chip” technology enables restricted shows to be locked according to TV ratings.

①Select “Program”



②Select the rating category you wish to follow



- MPAA : U.S movie ratings
- U.S.TV : U.S TV program ratings
- C.E.L.R : Canadian English ratings
- C.F.L.R : Canadian French ratings

③Select the rating to be locked



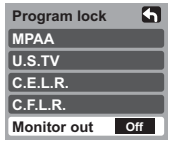
Example of “MPAA” (U.S movie ratings)

Off	No rating
G	General Audience: All ages admitted
PG	Parental Guidance Suggested
PG-13	Parents Strongly Cautioned: Inappropriate for children under 13
R	Restricted: Under 17 requires accompanying parent or adult guardian
NC-17	No one 17 and under admitted
X	Adults only

- To get other information (p. 51)

■ To disable recording of the locked program

➡Select “Monitor out” in “Program lock” menu (②)



On : Turns on the monitor terminal output for programs that have been set to “Blocked.”

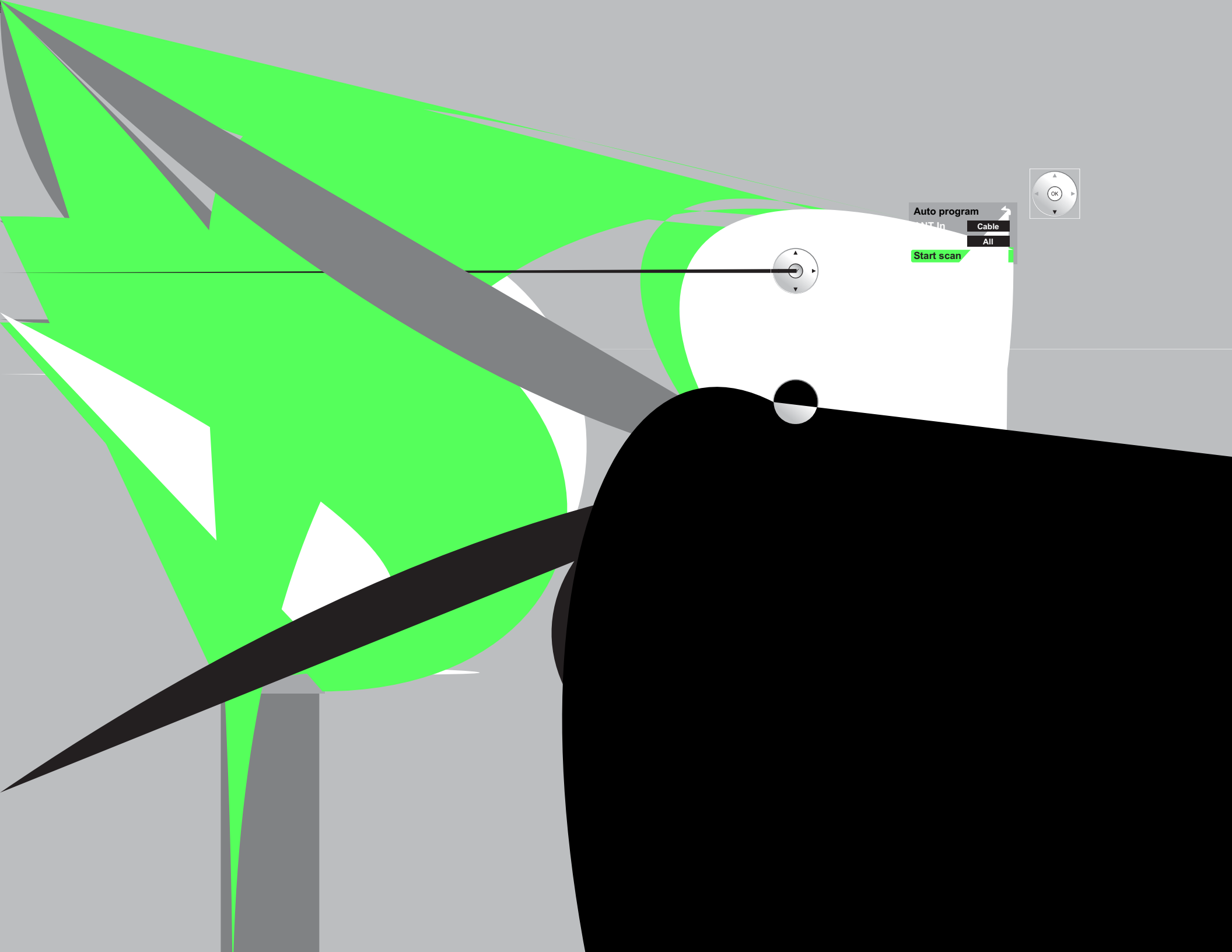
Off : Turns off the monitor terminal output for programs that have been set to “Blocked.”

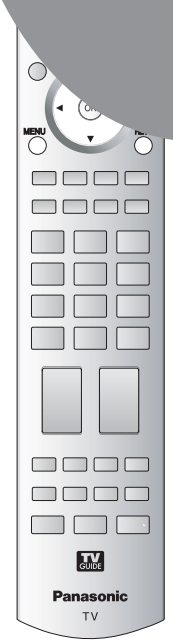
Caution

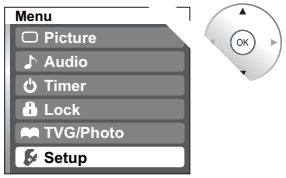
- The V-Chip system that is used in this set is capable of blocking “NR” programs (non rated, not applicable and none) as per FCC Rules Section15.120(e)(2). If the option of blocking “NR” programs is chosen “unexpected and possibly confusing results may occur, and you may not receive emergency bulletins or any of the following types of programming:”
 • Emergency Bulletins (Such as EAS messages, weather warnings and others)
 • Locally originated programming • News • Political • Public Service Announcements • Religious • Sports • Weather

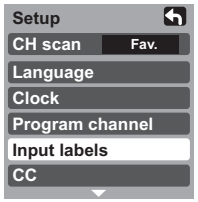
Note

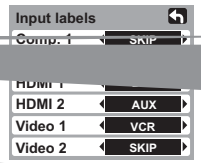
- The Off rating is independent of other ratings.
- When placing a block on a specific age based rating level, the Off rating and any other more restrictive ratings will also be blocked.

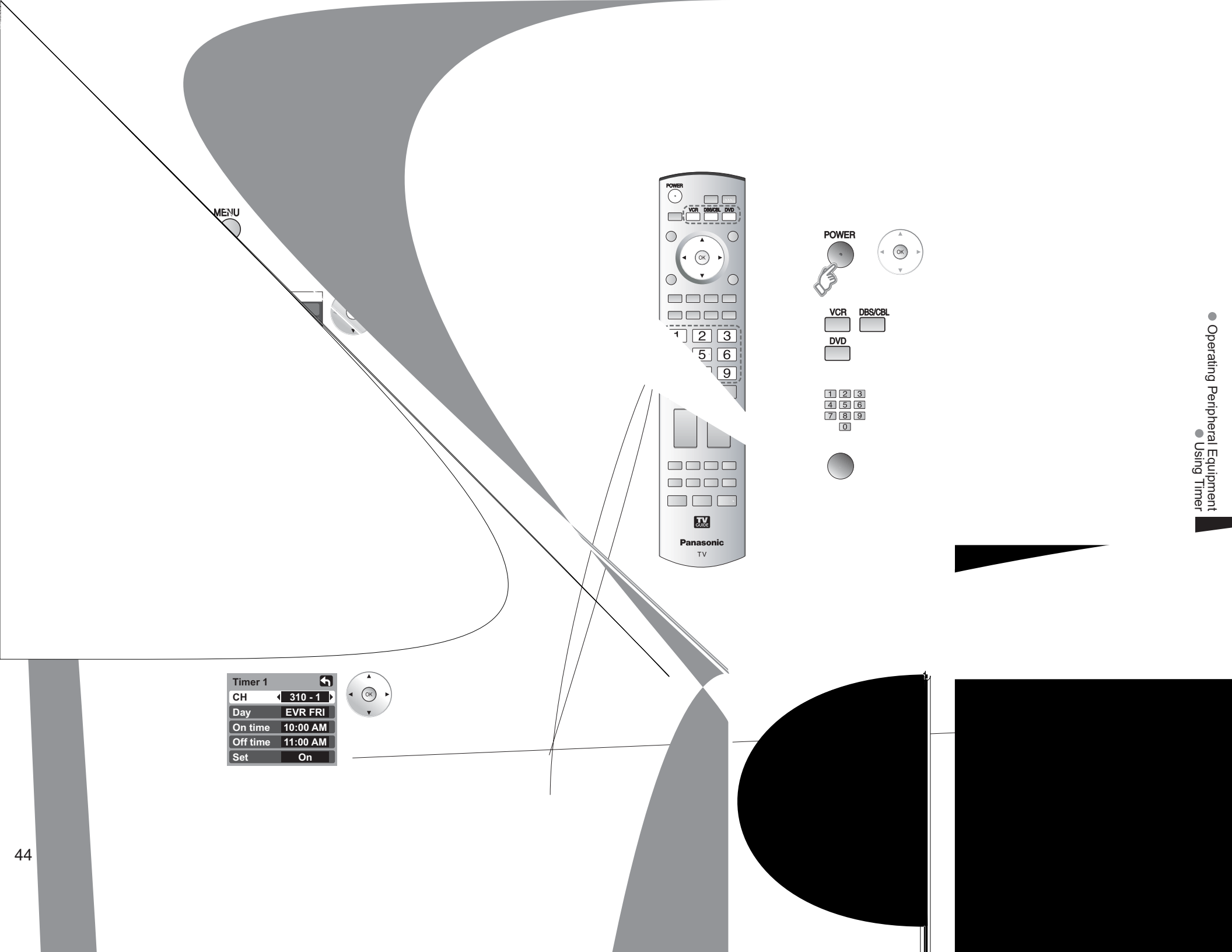

Auto program
Cable
All
Start scan
OK


MENU
Panasonic
TV


Menu
Picture
Audio
Timer
Lock
TVG/Photo
Setup

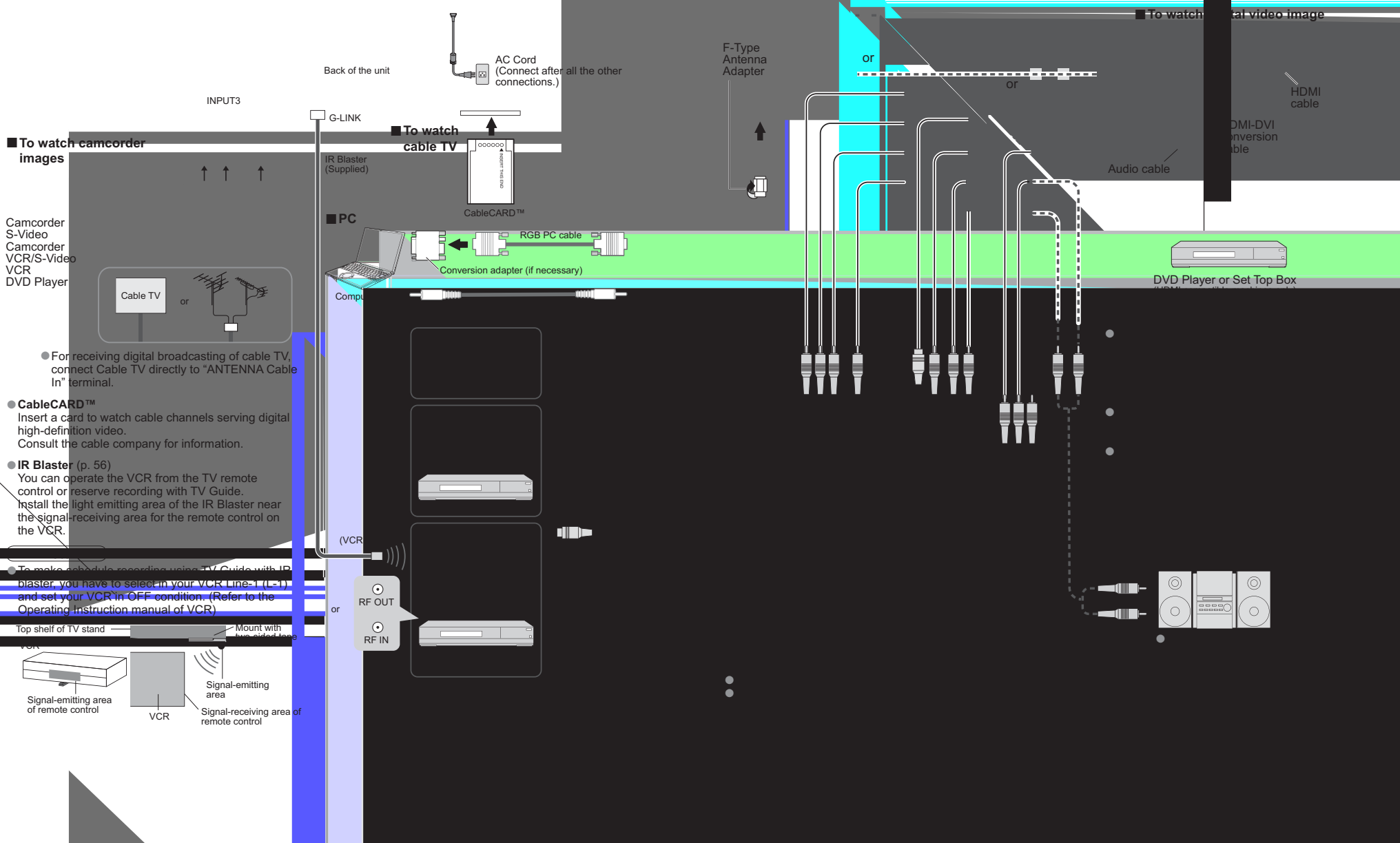

Setup
CH scan
Fav.
Language
Clock
Program channel
Input labels
CC


Input labels
HDMI 2
AUX
Video 1
VCR
Video 2
SKIP


MENU
POWER
VCR
DBS/CBL
DVD
OK
1 2 3
5 6
9
TV GUIDE
Panasonic
TV
POWER
OK
VCR
DBS/CBL
DVD
1 2 3
4 5 6
7 8 9
0
Timer 1
CH 310 - 1
Day EVR FRI
On time 10:00 AM
Off time 11:00 AM
Set On
OK

Recommended AV Connections

These diagrams show our recommendations for how to connect the TV unit to your various equipment.
For other connections, consult the instructions of each piece of equipment, and the specifications (p. 61).
For additional assistance, please visit our website at : www.panasonic.com
www.panasonic.ca



Remote Control Operation/Code List

The following explains how to operate external devices with the remote control.
- Register the remote control codes (p. 45) if you want to operate an external device of another manufacturer. (p. 49-50)

Note

- Operation may not be possible depending on the available memory size of the remote control. This remote control is not designed to cover operation of all functions of all models.

■ Remote Control Operation List

This chart defines which keys are operational after programming (if needed), while in the selected remote control mode, VCR, DBS/CBL, DVD.

KEY NAME	VCR MODE	DBS/CBL MODE		DVD MODE
		(DBS)	(CBL)	
POWER	Power	Power	Power	Power
TV/VIDEO	TV Input Switch	TV Input Switch	TV Input Switch	TV Input Switch
EXIT	—	Exit	Exit	—
OK	—	DBS Cursor Up/Down/Right/Left	CBL Cursor Up/Down/Right/Left	DVD Cursor Up/Down/Right/Left
	—	Ok	Ok	Ok
MENU	—	DBS Menu	CBL Menu	DVD Setup Menu
RETURN	—	—	—	Return, Clear
MUTE	TV Mute	TV Mute	TV Mute	TV Mute
ASPECT	—	Aspect	Aspect	DVD Disc Menu
FAVORITE	—	—	—	Title
RECALL	Onscreen Display	Onscreen Display	Onscreen Display	Onscreen Display
0~9	0-9	0-9	0-9	0-9
R-TUNE	—	DBS Previous Channel	CBL Previous Channel	Drive Select
CH	Channel Up/Down	DBS Channel Up/Down	CBL Channel Up/Down	Channel Up/Down
VOL	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down	TV Volume Up/Down
SLEEP	—	Sleep	Sleep	—
TV/VCR	TV/VCR Switch	TV/DBS Switch	TV/CBL Switch	—
REC	VCR Record	PVR Record *1	PVR Record *1	Record
OPEN/CLOSE	—	Search *1	Search *1	Open/Close
SKIP SPLIT SWAP	—	—	—	Skip Reverse/Forward
SEARCH	Rewind/Fast Forward	—	—	Reverse/Forward
STOP	Stop	—	—	Stop
II/▷ PAUSE	Pause	—	—	Pause
PLAY	Play	—	—	Play

*1: Combination type

■ Remote Control Code List

Cable Converter (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABC	0003, 0008	Hamlin	0009, 0273	Philips	0317, 1305	Scientific Atlanta	0008, 0477, 0877, 1877
Americast	0899	Jerrold	0003, 0276, 0476, 0810	Pioneer	0144, 0533, 0877, 1877	Sony	1006
Bell South	0899	Memorex	0000	Pulsar	0000	Starcom	0003
Digeo	1187	Motorola	1376, 0276, 0476, 0810, 1187	Quasar	0000	Supercable	0276
Director	0476	Pace	0008, 0237, 1877	Regal	0273, 0279	Torx	0003
General Instrument	0003, 0276, 0476, 0810	Panasonic	0000, 0107	Runco	0000	Toshiba	0000
GoldStar	0144	Paragon	0000	Samsung	0144	Zenith	0000, 0525, 0899

Satellite Receiver (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
AlphaStar	0772	General Instrument	0869	Magnavox	0722, 0724	Samsung	1108, 1109, 1142, 1276, 1377, 1442, 1609
Chaparral	0216			Memorex	0724		
Crossdigital	1109	GOI	0775, 1775	Mitsubishi	0749	Sanyo	1219
DirecTV	0099, 0247, 0392, 0566, 0639, 0724, 0749, 0819, 1076, 1108, 1109, 1142, 1377, 1392, 1414, 1442, 1443, 1444, 1609, 1639, 1640, 1749, 1856	Goodmans	1246	Motorola	0856, 0869	Sony	0639, 1639, 1640
		Hisense	1535	NEC	1270	Star Choice	0869
		Hitachi	0819, 1250	Next Level	0869	Tivo	1142, 1442, 1443, 1444
		HTS	0775, 1775	Panasonic	0152, 0247, 0701, 1786	Toshiba	0749, 0790, 0819, 1285, 1749
		Hughes	0749, 1442, 1749	Paysat	0724	UltimateTV	1392, 1640
Dish Network System	0775, 1005, 1170, 1505, 1775	Hughes Network Systems	0749, 1142, 1442, 1443, 1444, 1749	Philips	0099, 0722, 0724, 0749, 0819, 1076, 1142, 1442, 1749	Uniden	0722, 0724
						US Digital	1535
Dishpro	0775, 1005, 1505, 1775	iLo	1535	Pioneer	1442	USDTV	1535
Echostar	0775, 1005, 1170, 1505, 1775	Janeil	0152	Proscan	0392, 0566	Voom	0869
Expressvu	0775, 1775	Jerrold	0869	Proton	1535	Zenith	1856
GE	0392, 0566	JVC	0775, 1170, 1775	RadioShack	0869		
		LG	1226, 1414	RCA	0143, 0392, 0566, 0855, 1392		

Cable/PVR Combination (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
Americast	0899	Jerrold	0476, 0810	Pioneer	0877, 1877	Supercable	0276
Digeo	1187	Motorola	0476, 0810, 1187, 1376	Scientific Atlanta	0877, 1877	Zenith	0899
General Instrument	0476, 0810	Pace	0237, 1877	Sony	1006		

DBS/PVR Combination (DBS/CBL)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
DirecTV	0099, 0392, 0639, 1076, 1142, 1377, 1392, 1442, 1443, 1444, 1640	Dishpro	0775, 1505	JVC	1170	Samsung	1442
		Echostar	0775, 1170, 1505	Motorola	0869	Sony	0639, 1640
		Expressvu	0775	Philips	1142, 1442	Star Choice	0869
Dish Network System	0775, 1505	Hughes Network Systems	1142, 1442, 1443, 1444	Proscan	0392		
				RCA	1392		

VCR (VCR)

Brand	Code	Brand	Code	Brand	Code	Brand	Code
ABS	1972	Hewlett Packard	1972	NEC	0067	Scott	0043, 0045
Adventura	0000	Hitachi	0000, 0042, 0089	Nikko	0037	Sears	0000, 0035, 0037, 0042, 1237
Aiwa	0000, 0037, 0124	Howard Computers	1972	Niveus Media	1972	Sharp	0807, 0848
Akai	0175	HP	1972	Northgate	1972	Sonic Blue	0614, 0616
Alienware	1972	Hughes Network Systems	0042, 0739	Olympus	0035, 0226	Sony	0000, 0032, 0033, 0035, 0636, 1032, 1232, 1972
American High	0035			Onkyo	0222		
Audiovox	0037	Humax	0739	Optimus	0037	Stack 9	1972
Broksonic	1479	Hush	1972	Orion	1479	STS	0042
Calix	0037	iBUYPOWER	1972	Panasonic	0035, 0077, 0225, 0226, 0227, 0378, 0616, 1035, 1244	Sylvania	0000, 0035, 0043, 1781
Canon	0035	JVC	0067			Symphonic	0000
Citizen	0037, 1278	KEC	0037	Penney	0035, 0037, 0042, 1035, 1237	Systemax	1972
Craig	0037	Kenwood	0067	Pentax	0042	Tagar Systems	1972
Curtis Mathes	0035, 0060, 1035	Kodak	0035, 0037	Philco	0035	Teac	0000
CyberPower	1972	Linksys	1972	Philips	0035, 0618, 0739, 1081, 1181	Technics	0035
Daewoo	0045, 1278	Lloyd's	0000	Pilot	0037	Teknika	0000, 0035, 0037
Dell	1972	LXI	0037	Pioneer	0067	Thomas	0000
Denon	0042	Magnasonic	1278	Proscan	0060, 1060	Tivo	0618, 0636, 0739
DirecTV	0739	Magnavox	0000, 0035, 0039, 1781	Pulsar	0039	Toshiba	0043, 0045, 0845, 1008, 1145, 1972
Durabrand	0039	Marantz	0035	Quasar	0035, 0077, 1035		
Dynatech	0000	Marta	0037	RadioShack	0000	Totevision	0037
Electrohome	0037, 0043	Matsushita	0035	Radix	0037	Touch	1972
Electrophonic	0037	Media Center PC	1972	Randex	0037	Vector	0045
Emerex	0032	MEI	0035	RCA	0042, 0060, 0077, 0807, 0880, 1035, 1060	Video Concepts	0045
Emerson	0000, 0037, 0043, 1278, 1479	Memorex	0000, 0035, 0037, 0039, 1237			Videomagic	0037
Fuji	0033, 0035	MGA	0043	Realistic	0000, 0035, 0037	Viewsonic	1972
Funai	0000	Microsoft	1972	ReplayTV	0614, 0616	Villain	0000
Garrard	0000	Mind	1972	Ricavision	1972	Voodoo	1972
Gateway	1972	Minolta	0042	Runco	0039	Wards	0000, 0035, 0042, 0060
GE	0035, 0060, 0807, 1035, 1060	Mitsubishi	0043, 0067, 0807	Samsung	0045, 0739, 1014	XR-1000	0000, 0035
GoldStar	0037, 1237	Motorola	0035	Sanky	0039	Zenith	0000, 0033, 0039, 1479
Gradiente	0000	MTC	0000	Sansui	0000, 0067, 1479	ZT Group	1972
Harley Davidson	0000	Multitech	0000	Sanyo	0159		

Remote Control Operation/Code List (Continued)

■ Remote Control Code List

DBS/PVR Combination (VCR)

Brand	Code
Hughes Network Systems	0739
Philips	0739
Samsung	0739

PVR (VCR)

Brand	Code
ABS	1972
Alienware	1972
CyberPower	1972
Dell	1972
DirecTV	0739
Gateway	1972
Hewlett Packard	1972
Howard Computers	1972
HP	1972
Hughes Network Systems	0739
Humax	0739
Hush	1972
iBUYPOWER	1972
Linksys	1972
Media Center PC	1972
Microsoft	1972
Mind	1972
Niveus Media	1972
Northgate	1972
Panasonic	0616
Philips	0618, 0739
RCA	0880
ReplayTV	0614, 0616
Sonic Blue	0614, 0616
Sony	0636, 1972
Stack 9	1972
Systemax	1972
Tagar Systems	1972
Tivo	0618, 0636, 0739
Toshiba	1008, 1972
Touch	1972
Viewsonic	1972
Voodoo	1972
ZT Group	1972

DVD (DVD)

Brand	Code
Adcom	1094
Allegro	0869
Apex Digital	0672, 0794, 0796, 0797, 1004, 1056, 1061, 1100
Aspire Digital	1168
Blue Parade	0571
Broksonic	0695
California Audio Labs	0490
CineVision	0833, 0869
Coby	1086
CyberHome	0816, 1023, 1024, 1129
Daewoo	0833, 0869
Denon	0490
Disney	0675
DVD2000	0521
Emerson	0591, 0675
Enterprise	0591
Funai	0675
Gateway	1158
GE	0522
Go Video	0741, 0833, 0869, 1075, 1158, 1304, 1730
GoldStar	0741
Gradiente	0490
Grundig	0539
Hitachi	0573, 0664
Hiteker	0672
Integra	0571
JVC	0558, 0623, 0867, 1164, 1275
Kenwood	0490, 0534
Lecson	1533
LG	0591, 0741, 0801, 0869
LiteOn	1158, 1440
Loewe	0511
Magnavox	0503, 0539, 0646, 0675
Marantz	0539
McIntosh	1533
Memorex	0695
Microsoft	0522
Mitsubishi	0521, 1521
NAD	0591, 0741
NEC	0785
Onkyo	0503, 0792
Panasonic	0490, 0503, 0632, 0703, 1010, 1011, 1362, 1462, 1490, 1762, 1967
Philips	0503, 0539, 0646, 0675, 1267, 1354
PianoDisc	1024
Pioneer	0525, 0571, 0631, 0632
Polaroid	1061, 1086
Polk Audio	0539
Proceed	0672
Proscan	0522
RCA	0522, 0571, 0822
Rio	0869
Rotel	0623
Sampo	0752
Samsung	0490, 0573, 0820, 1075
Sansui	0695
Sanyo	0695, 0873, 1967
Sensory Science	1158
Sharp	0630, 0675, 0752, 1256
Shinsonic	0533
Sonic Blue	0869
Sony	0533, 0864, 1033, 1431, 1533
Sylvania	0675
Symphonic	0675
Teac	0809
Technics	0490, 0703
Theta Digital	0571
Toshiba	0503, 0695, 1045, 1154
Urban Concepts	0503
Xbox	0522
Yamaha	0490, 0539, 0545
Zenith	0503, 0591, 0741,0869

DVD Recorder (DVD)

Brand	Code
Apex Digital	1056
Aspire Digital	1168
Coby	1086
CyberHome	1129
Funai	0675
Gateway	1158
Go Video	0741, 1158, 1304, 1730
JVC	1164, 1275
LG	0741
LiteOn	1158, 1440
Magnavox	0646
Panasonic	0490, 1010, 1011
Philips	0646
Pioneer	0631
Polaroid	1086
RCA	0522
Samsung	0490
Sensory Science	1158
Sharp	0675
Sony	1033, 1431
Sylvania	0675
Zenith	0741

Ratings List for Channel Lock

"V-chip" technology enables you to lock out channels or shows according to standard ratings set by the entertainment industry. (p. 39)

■ U.S. MOVIE RATINGS (MPAA)

Off	NO RATING (NOT RATED) AND NA (NOT APPLICABLE) PROGRAMS. Movie has not been rated or rating does not apply.
G	GENERAL AUDIENCES. All ages admitted.
PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
PG-13	PARENTS STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
NC-17	NO ONE 17 AND UNDER ADMITTED.
X	ADULTS ONLY.

■ U.S. TV PROGRAMS RATINGS (U. S. TV)

Age-based Group	Age-based Ratings	Possible Content Selections	Description
NR (Not Rated)	TV-NR	● Viewable ● Blocked	Not Rated.
Youth	TV-Y	● Viewable ● Blocked	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
	TV-Y7	● FV Blocked ● Viewable ● Blocked	Directed to older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of 7.
Guidance	TV-G	● Viewable ● Blocked	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
	TV-PG	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
	TV-14	● D,L,S,V (all selected) ● Any combination of D, L, S, V	Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.
	TV-MA	● L,S,V (all selected) ● Any combination of L, S, V	Mature audiences only. This program may contain mature themes, profane language, graphic violence, and explicit sexual content.

FV: Fantasy/Cartoon Violence. V: Violence S: Sex L: Offensive Language D: Dialogue with sexual content.

■ CANADIAN ENGLISH RATINGS (C. E. L. R)

E	Exempt - Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C	Programming intended for children under age 8. No offensive language, nudity or sexual content.
C8+	Programming generally considered acceptable for children 8 years and over. No profanity, nudity or sexual content.
G	General programming, suitable for all audiences.
PG	Parental Guidance suggested. Some material may not be suitable for children.
14+	Programming contains themes or content which may not be suitable for viewers under the age of 14. Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens.
18+	18+ years old. Programming restricted to adults. Contains constant violence or scenes of extreme violence.

■ CANADIAN FRENCH RATINGS (C. F. L. R)

E	Exempt - Exempt programming.
G	General - Programming intended for audience of all ages. Contains no violence, or the violence content is minimal or is depicted appropriately.
8 ans+	8+ General - Not recommended for young children. Programming intended for a broad audience but contains light or occasional violence. Adult supervision recommended.
13 ans+	Programming may not be suitable for children under the age of 13 - Contains either a few violent scenes or one or more sufficiently violent scenes to affect them. Adult supervision strongly suggested.
16 ans+	Programming may not be suitable for children under the age of 16 - Contains frequent scenes of violence or intense violence.
18 ans+	Programming restricted to adults. Contains constant violence or scenes of extreme violence.

Technical Information

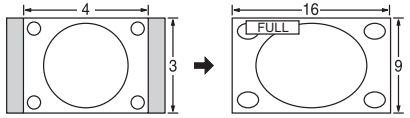
Closed Caption (CC)

- For viewing Closed Caption of digital broadcasting, set the aspect ratio to FULL.
 (If viewing with H-FILL, JUST, ZOOM or 4:3, characters will be cut off.)
- The closed caption is not displayed when you use HDMI connection.
- If analog connected equipment is used for displaying or recording, closed caption (CC) should be set On/Off on the connected equipment.
 The CC mode setting of the TV will not affect the analog input.
 If a digital program is being output in analog format, the CC data will also be output in analog format.
 If digital connected equipment is used for input, CC should be set On on either the connected equipment or the TV.
 If CC is set On on both the connected equipment and the TV, captions from each unit will overlap.

Aspect Ratio

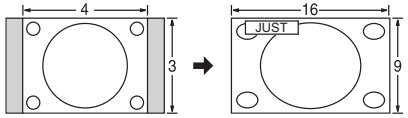
Let you choose the aspect depending on the format of the received signal and your preference. (p. 18)

- FULL



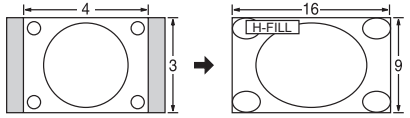
Enlarges the 4:3 image horizontally to the screen's side edges.
(Recommended for anamorphic picture)

- JUST



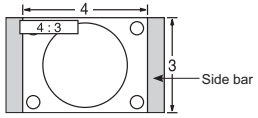
Stretches to justify the 4:3 image to the four corners of the screen.
(Recommended for normal TV broadcast)

- H-FILL



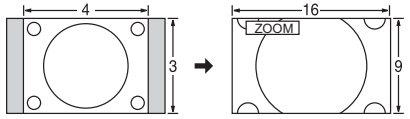
Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.

- 4:3



Standard
(Note that "after image" of the side bar may occur from displaying it for a long time.)

- ZOOM



Enlarges the 4:3 image to the entire screen.
(Recommended for Letter Box)

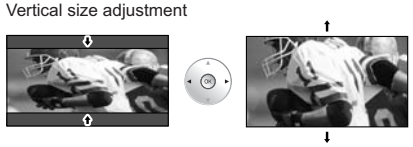
Note

- 480i (4:3), 480i (16:9), 480p (4:3), 480p (16:9) : FULL, JUST, 4:3 or ZOOM
- 1080p / 1080i / 720p : FULL, H-FILL, JUST, 4:3 or ZOOM.
- When the signal is 720p/1080i/1080p, the aspect mode automatically defaults to Full after turning off the TV, after changing input mode, or after changed signal resolution other than 720p/1080i/1080p.

- Zoom adjust
 Vertical image position and size can be adjusted in "ZOOM."
 ①Select "Zoom adjust" on the "Picture" menu. (p. 32)
 ②Vertical position adjustment



Vertical size adjustment



- To reset the aspect ratio ➡ (OK)

Data format for Card browsing

Photo:	Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF** standards
Data format:	Baseline JPEG 160X120-2,560X1,920 pixels (Sub-sampling: 4:4:4, 4:4:2 or 4:2:0)
Max. number of files:	9,999
Image resolution:	8 x 8 to 5,120 x 3,840

* DCF (Design rule for camera file system): A Japan Electronics and Information Technology Industries Association's standard

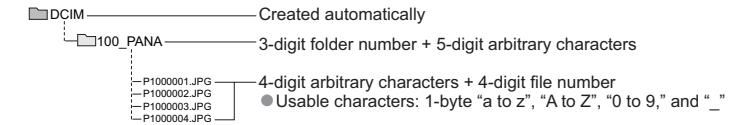
** EXIF (Exchangeable Image File Format)

Caution

- A JPEG image modified with a PC cannot be displayed.
- Partly degraded files might be displayed at a reduced resolution.

Note

- Folder structure viewed in PC



- The folder and file names may be different depending on the digital camera used.
- Suitable SD Memory Cards. Please confirm the latest information on the following website.
 http://panasonic.co.jp/pavc/global/cs (This site is in English only)

DIGITAL AUDIO OUT terminals

You can enjoy your home theater by connecting a Dolby Digital (5.1 channel) decoder and "Multi Channel" amplifier to the DIGITAL AUDIO OUT terminals.

Caution

- Depending on your DVD player and DVD-Audio software the copyright protection function may operate and disable optical output.
- External speakers cannot be connected directly to PROG.OUT terminals.
- When ATSC channel is selected, the output from the DIGITAL AUDIO OUT jack will be Dolby Digital. When NTSC channel is selected, the output will be PCM.

Control with HDMI "HDAVI Control™"

HDMI connections to some Panasonic equipment allow you to enjoy the easy playback or home theater.

- Set up the equipment to enable this function. Read the manual of the equipment.
- Switch the TV unit on again with the equipment on when connection or setup is changed.
- This function may not work normally depending on the equipment condition.
- The equipment can be operated by the TV's remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier. Read the manuals of Amplifier.

Technical Information (Continued)

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and the devices.
HDMI-compatible equipment (*1) with an HDMI or DVI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external device has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI1 in" or "HDMI2 in" menu screen. (p. 32)
 Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(*1): The HDMI logo is displayed on an HDMI-compliant device.
(*2): Enquire at your local digital device retailer shop.

Caution

- Use with a PC is not assumed.
- All signal is reformatted before being displayed on the screen.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- This HDMI connector is "type A".
- A device having no digital output terminal may be connected to the input terminal of either "COMPONENT", "S VIDEO", or "VIDEO" to receive analog signals.
- The HDMI input terminal can be used with only the following image signals: 480i, 480p, 720p, 1080i and 1080p. Match the output setting of the digital device.
- For details of the applicable HDMI signals, see below.

Input signal that can be displayed

* Mark: Applicable input signal for Component (Y, P_B, P_R), HDMI and PC

	horizontal frequency (kHz)	vertical frequency (Hz)	COMPONENT	HDMI	PC
525 (480) / 60i	15.73	59.94	*	*	
525 (480) /60p	31.47	59.94	*	*	
750 (720) /60p	45.00	59.94	*	*	
1,125 (1,080) /60i	33.75	59.94	*	*	
1,125 (1,080) /60p	67.43	59.94		*	
1,125 (1,080) /60p	67.50	60.00		*	
640 × 400 @70	31.47	70.08			*
640 × 480 @60	31.47	59.94			*
Macintosh13" (640 × 480)	35.00	66.67			*
640 × 480 @75	37.50	75.00			*
852 × 480 @60	31.47	59.94			*
800 × 600 @60	37.88	60.32			*
800 × 600 @75	46.88	75.00			*
800 × 600 @85	53.67	85.08			*
Macintosh16" (832 × 624)	49.73	74.55			*
1,024 × 768 @60	48.36	60.00			*
1,024 × 768 @70	56.48	70.07			*
1,024 × 768 @75	60.02	75.03			*
1,024 × 768 @85	68.68	85.00			*
Macintosh 21" (1,152 × 870)	68.68	75.06			*
1,280 × 1,024 @60	63.98	60.02			*
1,366 × 768 @60	48.36	60.00			*

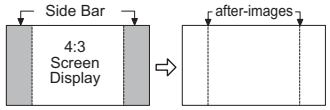
Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.

Side Bar

Do not display a picture in 4:3 mode for an extended period, as this can cause an after-image to remain on either or both sides of the display field.
To reduce the risk of such an after-image, change the brightness of the side bars.

- The side bar may flash (alternate black/white) depending on the picture. Using Cinema mode will reduce such flashing (see below).



Pic. mode

- Vivid (default) : Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard : Recommended for normal viewing conditions with subdued room lighting.
- Cinema : For watching movies in a darkened room. It provides a soft, film-like picture.

TV Guide (Reminder Screen)

If you skip TV Guide On Screen Setup you see the TV Guide On Screen Reminder screen the next time you power On your TV.



Press ▲/▼ to highlight an option, and press OK.

- Start setup : Begins setup process
- Remind me to set up later : Closes screen and displays reminder next time you power On the TV
- Don't remind me again : Closes screen and does not display reminder next time you power On the TV

Press TV GUIDE to close the screen.

Split - Screen

- TV screen (RF input) cannot be displayed in both main and split frame simultaneously.
- The Split-screen feature is not available when using HDMI, PC and SD Card viewing mode as a source. HDMI signal and PC input cannot be displayed in Split frame.

CableCARD™

- This menu is used to provide information when a CableCARD™ is inserted into the CableCARD™ slot on the back of the television. "CableCARD" is not accessible without inserting a CableCARD™ into the CableCARD™ slot. To receive the features offered by your cable company, you may have to subscribe to those services.

CableCARD

Note

Please contact your cable company regarding availability of the CableCARD™.
The CableCARD™ is needed to receive premium digital services (where available) through the Cable input. You may also be able to order pay per view events.

Technical Information (Continued)

PC Input Terminals Connection

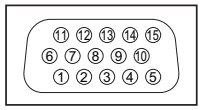
- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
- Some PC models cannot be connected to the set.
- There is no need to use an adapter for computers with IBM PC/AT compatible D-sub 15P terminal.

- The maximum resolution

Aspect \ Model No.	TH-42PX600U	TH-50PX600U	TH-58PX600U
4:3	768 × 768	1,024 × 768	1,024 × 768
16:9	1,024 × 768	1,366 × 768	1,366 × 768

If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.

- Signal Names for D-sub 15P Connector



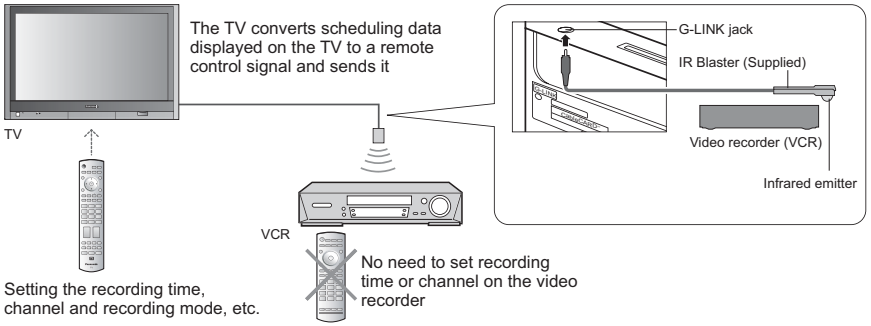
Pin Layout for PC Input Terminal

Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC

IR Blaster connection

With the IR Blaster connection, scheduled recording can be done easily by using the TV Guide feature in this set.
Connect the IR Blaster if you wish to send remote control signals from the plasma TV to control the recording of a connected video recorder (VCR).
Position the IR Blaster emitter facing the signal sensor of the video recorder and you will be able to easily record programs from digital broadcasts. (p. 46)
Before the VCR starts timer recording, please confirm that the VCR's power is turned off.

The TV acts as a proxy for some remote control operations of the VCR.



Maintenance

First, unplug the AC cord plug from the wall outlet.

Display panel

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, soak a soft, lint-free cloth in a weak detergent solution and then wring the cloth to remove excess liquid. Use this cloth to wipe the surface of the display panel, then wipe it evenly with a dry cloth, of the same type, until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner; otherwise, the quality of the surface may be adversely affected.

Cabinet

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

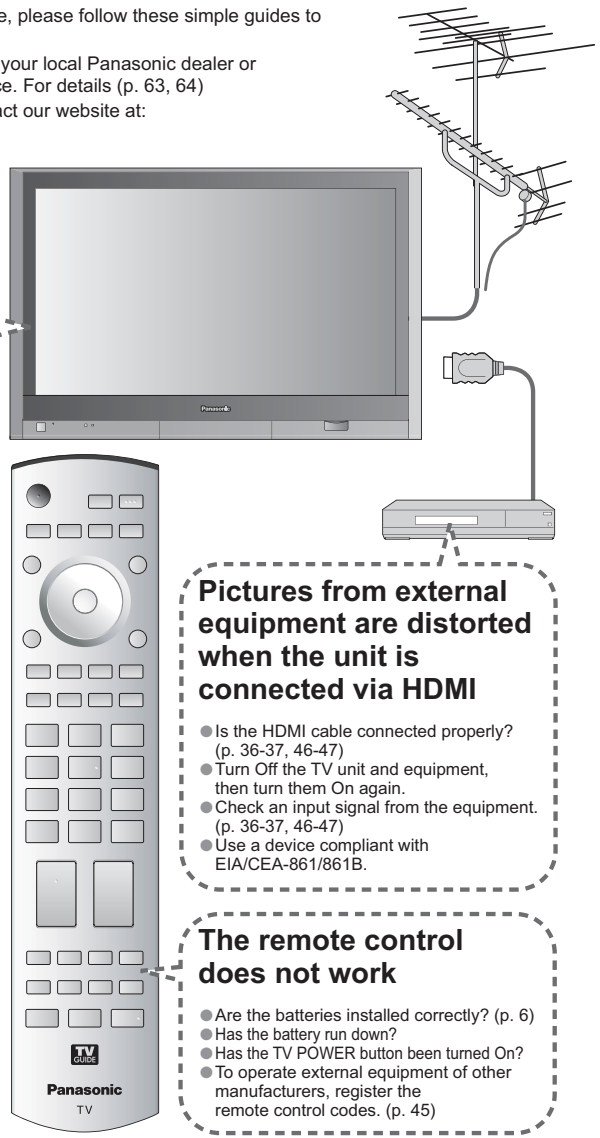
- If the cabinet is particularly dirty, soak the cloth in a weak detergent solution and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma TV. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner; otherwise, the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.

Pedestal

- Cleaning
 Wipe the surfaces with a soft, dry cloth. If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added, and then wipe with a dry cloth.
 Do not use products such as solvents, thinner or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty. Do not allow long-term contact with rubber, vinyl products or the like. (Doing so will cause deterioration.)

FAQ

Before requesting service or assistance, please follow these simple guides to resolve the problem.
If problem still persists, please contact your local Panasonic dealer or Panasonic Service center for assistance. For details (p. 63, 64)
For additional assistance, please contact our website at:
www.panasonic.com/contactinfo
www.panasonic.ca



White spots or shadow images (noise)





- Check the position, direction, and connection of the antenna.

Interference or frozen digital channels

(intermittent sound)



- Change the direction of antenna for digital channels .
- Check “Signal meter” (p. 41). If the signal is weak, check the antenna and consult your local dealer.

Pictures from external equipment are distorted when the unit is connected via HDMI

- Is the HDMI cable connected properly? (p. 36-37, 46-47)
- Turn Off the TV unit and equipment, then turn them On again.
- Check an input signal from the equipment. (p. 36-37, 46-47)
- Use a device compliant with EIA/CEA-861/861B.

The remote control does not work

- Are the batteries installed correctly? (p. 6)
- Has the battery run down?
- Has the TV POWER button been turned On?
- To operate external equipment of other manufacturers, register the remote control codes. (p. 45)

Before requesting service or assistance, please follow these simple guides to resolve the problem.
If problem still persists, please contact your local Panasonic dealer or Panasonic Service center for assistance. For details (p. 63, 64)

	Problem	Actions
Screen	**“Press any key to return” moves on the screen**	● The function to prevent “after image” is activated. (Not a faulty symptom) ● The screen saver is activated if the TV unit is not operated for a certain time in SD mode. ● “after image” (p. 5)
Screen	**One spot remains dark**	● A pixel or luminescent spot can occasionally be missing in plasma displays. (Not a faulty symptom)
Screen	**Chaotic image, noisy**	● Check nearby electrical products (car, motorcycle, fluorescent lamp).
Screen	**No image can be displayed**	● Check Picture menu (p. 32)
Screen	**Only spots are displayed instead of images**	● Check the channel settings. (p. 40) ● Check the antenna cables.
Screen	**Neither image nor sound is produced**	● Is the AC power cord plugged into the outlet? ● Is the TV unit turned On? ● Check Picture menu (p. 32) and volume. ● Are the remote control codes correct? (p. 49-50)
Screen	**Black Box appears**	● Change settings of Closed Caption (CC). (p. 42)
Sound	**No sound is produced**	● Is “Sound Mute” active? (p. 12) ● Is the volume set to the minimum? ● Is “Speakers” set to “Off”? (p. 32) ● Change “SAP” settings. (p. 19) ● Check “HDMI1 in” or “HDMI2 in” settings. (p. 32)
Sound	**Sound is unusual**	● Set “SAP” setting to “Stereo” or “Mono.” ● Check the HDMI device connected to the unit. ● Set the audio setting of the HDMI device to “Linear PCM.” ● If digital sound connection has a problem, select analog sound connection.
Sound	**Whirling sound is heard**	● The sound is from built-in cooling fan (not a sign of faulty operation).
HDMI	**“Control with HDMI” function does not work**	● Switch the TV unit on again with the equipment on. ● Set “Control with HDMI” to “Off”, then set to “On” again. (p. 34)

FAQ (Continued)

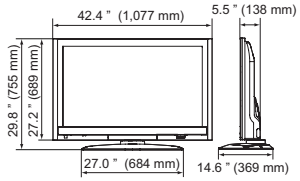
TV Guide

Problem	Actions
Show list disappears after blackout	● The list will be downloaded within 24 hours.
Channel display is not correct	● Set to the correct channel in “Change Channel Display”. (p. 22)
Unable to execute the reserved recording	● Is VCR turned “Off” ? ● Is the videocassette inserted? ● Check “Schedule” if the show is set in the list. (p. 24) ● Check the position of IR Blaster. (p. 46)
Unable to receive the reserved broadcast	● Check “Schedule” if the show is set in the list. (p. 24) ● Check the installation of IR Blaster. (p. 46)
No show list appears in TV Guide	● Has it been 24 hours since completing the initial setup of TV Guide? (Some time is required for list downloading.) ● After initial setting, it takes a week to display the entire list for 8 days. ● Check the connection of the TV, the cables and the antenna.

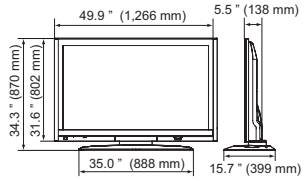
Specifications

		TH-42PX600U	TH-50PX600U	TH-58PX600U
Power Source		AC 120 V, 50 / 60 Hz		
Power Consumption	Maximum	399 W	525 W	665 W
	Standby condition	0.2 W (With CableCARD™: 14.0 W)	0.2 W (With CableCARD™: 14.5 W)	0.2 W (With CableCARD™: 14.5 W)
Plasma panel Display	Drive method	AC type		
	Aspect Ratio	16:9		
	Contrast Ratio	(max) 10000:1		
	Visible screen size (W × H × Diagonal)	106 cm 36.3 ” × 20.4 ” × 41.6 ” (920 mm × 518 mm × 1,056 mm)	127 cm 43.6 ” × 24.5 ” × 50.0 ” (1,106 mm × 622 mm × 1,269 mm)	148 cm 50.7 ” × 28.5 ” × 58.1 ” (1,287 mm × 723 mm × 1,476 mm)
	(No. of pixels)	786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]	1,049,088 (1,366 (W) × 768(H)) [4,098 × 768 dots]
Sound	Speaker	Woofer Φ 3.2 ” (80 mm) × 2pcs, 8 Ω Speaker 0.9 ” × 4.0 ” (23 mm × 100 mm) × 2pcs, 8 Ω		
	Audio Output	31 W [13 W + 2.5 W, 13 W + 2.5 W] (10 % THD)		
PC signals		VGA, SVGA, XGA SXGA (compressed) Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz		
Channel Capability (Digital/Analog)		VHF/ UHF : 2-69, CATV:1-135		
Operating Conditions		Temperature : 32 °F - 104 °F (0 °C – 40 °C)		
Connection Terminals	INPUT 1-3	VIDEO : RCA PIN Type × 1 1.0 V [p-p] (75 Ω) S-VIDEO : Mini DIN 4-pin Y:1.0 V [p-p] (75 Ω) C:0.286 V [p-p] (75 Ω) AUDIO L-R : RCA PIN Type × 2 0.5 V [rms]		
	COMPONENT VIDEO INPUT 1-2	Y : 1.0 V [p-p] (including synchronization) PB, PR: ±0.35 V [p-p] AUDIO L-R : RCA PIN Type × 2 0.5 V [rms]		
	HDMI 1-2	TYPE A Connector AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
	PC	D-SUB 15PIN : R,G,B / 0.7 V [p-p] (75 Ω) HD, VD / 1.0 - 5.0 V [p-p] (high impedance) AUDIO L-R : Stereo Mini Jack (Φ3.5 mm) × 1		
	IR Blaster	G-LINK Jack × 1		
	Card slot	SD CARD slot × 1, CableCARD™ slot × 1		
	AV PROG. OUT	VIDEO: RCA PIN Type × 1 1.0 V [p-p] (75 Ω) AUDIO L-R: RCA PIN Type × 2 0.5 V [rms]		
	DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber Optic		
FEATURES		3D Y/C FILTER CableCARD™ slot CLOSED CAPTION V-Chip Split-Screen BBE VIVA 3D Photo Viewer TV Guide		
Dimensions (W × H × D)	Including pedestal	42.4 ” × 29.8 ” × 14.6 ” (1,077 mm × 755 mm × 369 mm)	49.9 ” × 34.3 ” × 15.7 ” (1,266 mm × 870 mm × 399 mm)	57.3 ” × 38.9 ” × 16.6 ” (1,454 mm × 986 mm × 420 mm)
	TV Set only	42.4 ” × 27.2 ” × 5.5 ” (1,077 mm × 689 mm × 138 mm)	49.9 ” × 31.6 ” × 5.5 ” (1,266 mm × 802 mm × 138 mm)	57.3 ” × 36.2 ” × 5.7 ” (1,454 mm × 918 mm × 143 mm)
Weight	Including pedestal	98.1 lb. (44.5 kg)	123.5 lb. (56 kg)	174.2 lb. (79 kg)
	TV Set only	71.7 lb. (32.5 kg)	94.8 lb. (43 kg)	136.7 lb. (62 kg)

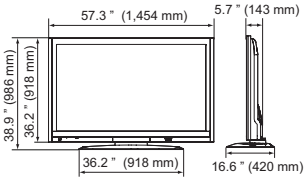
[TH-42PX600U]



[TH-50PX600U]



[TH-58PX600U]



Note

● Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

Limited Warranty (for U.S.A.)

**PANASONIC CONSUMER ELECTRONICS COMPANY,
DIVISION OF
PANASONIC CORPORATION OF NORTH AMERICA
One Panasonic Way
Secaucus, New Jersey 07094**

**PANASONIC SALES COMPANY,
DIVISION OF
PANASONIC PUERTO RICO INC.
Ave. 65 de Infanteria, Km. 9.5
San Gabriel Industrial Park
Carolina, Puerto Rico 00985**

Panasonic Color Television Limited Warranty

Limited Warranty Coverage
If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("Limited Warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

CATEGORIES	ALL PARTS EXCEPT GLASS PANEL OR CRT	LABOR	GLASS PANEL OR CRT	GLASS PANEL OR CRT LABOR	SERVICE
PLASMA DISPLAY	1 (ONE) YEAR	1 (ONE) YEAR	GLASS PANEL - 2 (TWO) YEARS	1 (ONE) YEAR	IN-HOME OR CARRY-IN

During the "Labor" Limited Warranty period there will be no charge for labor. During the "Parts" Limited Warranty period, there will be no charge for parts.
You must carry-in your product or arrange for in-home service during the Limited Warranty period. If non-rechargeable batteries are included, they are not warranted. This Limited Warranty only applies to products purchased and serviced in the United States or Puerto Rico. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of the original purchase date is required for Limited Warranty service.

In-Home or Carry-in Service
For In-Home or Carry-In Service in the United States call 1-888-VIEW-PTV(1-888-843-9788).
For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

In-Home service requires clear, complete and easy access to the product by the authorized servicer and does not include removal or re-installation of an installed product. It is possible that certain in-home repairs will not be completed in-home, but will require that the product, or parts of the product, be removed for shop diagnosis and/or repair and then returned.

Limited Warranty Limits And Exclusions
This Limited Warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage, nor does it cover markings or retained images on the picture tube resulting from viewing fixed images (including, among other things, letterbox pictures on standard 4:3 screen TV's, or non-expanded standard 4:3 pictures on wide screen TV's, or onscreen data in a stationary and fixed location). The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, bug infestation, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, or travel to and from the servicer. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE LIMITED WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied Limited Warranty lasts, so the exclusions may not apply to you.

This Limited Warranty gives you specific legal rights and you may also have others rights which vary from state to state. If a problem with this product develops during or after the Limited Warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE (INCLUDING COST OF AN IN-HOME SERVICE CALL, WHERE APPLICABLE) WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory (for U.S.A.)

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Service center; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:
http://www.panasonic.com/consumersupport
or, contact us via the web at:
http://www.panasonic.com/contactinfo
You may also contact us directly at:
1-888-VIEW-PTV (843-9788)
Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

■For hearing or speech impaired TTY users, TTY : 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books on line for all Panasonic Products by visiting our Web Site at:
http://www.pasc.panasonic.com
or, send your request by E-mail to:
npcparts@us.panasonic.com
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only) (Monday - Friday 9 am to 8 pm, EST.)
Panasonic Services Company
20421 84th Avenue South,
Kent, WA 98032
(We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

■For hearing or speech impaired TTY users, TTY : 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantería, Km. 9.5, San Gabriel Industrial Park,
Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

Limited Warranty (for Canada)

Panasonic Canada Inc.

PANASONIC PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Plasma TV / Monitor	**In-home service**	**One (1) year, parts (including Plasma Panel) and labour.**
LCD TV (26 in & over)	**In-home service**	**One (1) year, parts (including LCD Panel) and labour.**
LCD TV (25 in & under)	**Carry-in service only**	**One (1) year, parts (including LCD Panel) and labour.**

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.

This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.

THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.

In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

In-home service requires clear, complete and easy access to the product by the Authorized Servicentre and does not include removal or re-installation of an installed product. If removal is required to service the product, it will be at the discretion of the Servicentre and in no event will Panasonic Canada Inc. or the Servicentre be liable for any special, indirect or consequential damages.

WARRANTY SERVICE

For product operation and information assistance, please contact:

Our Customer Care Centre:
Telephone #: (905) 624-5505
1-800 #: 1-800-561-5505
Fax #: (905) 238-2360
Email link: “Customer support” on www.panasonic.ca

FOR PRODUCT REPAIRS, please locate your nearest Authorized Servicentre at www.panasonic.ca :
Link: “Servicentres™ locator” under “Customer support”

IF YOU SHIP THE PRODUCT TO A SERVICENTRE

Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

Note

Note

Note

Customer's Record
The model number and serial number of this product can be found on its back cover. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____ Serial Number _____

Anotación del cliente
El modelo y el número de serie de este producto se encuentran en su panel posterior. Deberá anotarlos en el espacio provisto a continuación y guardar este manual, más el recibo de su compra, como prueba permanente de su adquisición, para que le sirva de ayuda al identificarlo en el caso de que le sea sustraído ó lo pierda, y también para disponer de los servicios que le ofrece la garantía.

Modelo _____ Número de serie _____

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way Secaucus,
New Jersey 07094 U.S.A.

Panasonic Puerto Rico, Inc. ("PSC")
Ave. 65 de Infanteria, Km 9.5
San Gabriel Industrial Park,
Carolina, Puerto Rico 00985

Panasonic Canada Inc.
5770 Ambler Drive
Mississauga, Ontario
L4W 2T3 CANADA

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